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1　Just the fax—differentiating voice and fax phone lines using call billing data　　☐
Haim Kaplan, Martin Strauss, Mario Szegedy
January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**
Publisher: Society for Industrial and Applied Mathematics
Full text available: 📄 pdf(235.72 KB)　Additional Information: full citation, references, index terms

2　Industry/government track paper: Predicting the product purchase patterns of　☐
◈ corporate customers
Bhavani Raskutti, Alan Herschtal
August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**
Publisher: ACM Press
Full text available: 📄 pdf(609.39 KB)　Additional Information: full citation, abstract, references, index terms

This paper describes TIPPPS (Time Interleaved Product Purchase Prediction System), which analyses billing data of corporate customers in a large telecommunications company in order to predict high value upsell opportunities. The challenges presented by this prediction problem are significant. Firstly, the diversity of products used by corporate telecommunications customers is huge. This, coupled with low product take-up rates, makes this a problem of learning from a very high dimensional feature ...

Keywords: SVM applications, area under ROC, learning from few positive examples, upsell

3　Unicast and Multicast in Next Generation Wireless Networks: Multicast in 3G　☐
◈ networks:: employment of existing IP multicast protocols in UMTS
Mariann Hauge, Øyvind Kure
September 2002 **Proceedings of the 5th ACM international workshop on Wireless mobile multimedia**
Publisher: ACM Press
Full text available: 📄 pdf(338.06 KB)　Additional Information: full citation, abstract, references, citings, index terms

In this article we discuss the use of commonly deployed IP multicast protocols in UMTS networks. We analyze three possible UMTS multicast architectures, all employing standard

IP multicast protocols. We study the architectures' ability to handle: group management, data-security, authentication and authorization of multicast source/receivers, multicast session identification, terminal mobility and collection of billing data. For one of the architectures we quantify the performance of the design f ...

Keywords: IGMP, SSM, UMTS, multicast, wireless internet

4 I/O-Efficient Algorithms for Problems on Grid-Based Terrains

Lars Arge, Laura Toma, Jeffrey Scott Vitter
December 2001 **Journal of Experimental Algorithmics (JEA)**, Volume 6
Publisher: ACM Press

Full text available: pdf(447.27 KB)   Additional Information: full citation, abstract, references, citings, index terms

The potential and use of Geographic Information Systems is rapidly increasing due to the increasing availability of massive amounts of geospatial data from projects like NASA's Mission to Planet Earth. However, the use of these massive datasets also exposes scalability problems with existing GIS algorithms. These scalability problems are mainly due to the fact that most GIS algorithms have been designed to minimize internal computation time, while I/O communication often is the bottleneck when p ...

5 An energy efficient garbage collector for java embedded devices

Paul Griffin, Witawas Srisa-an, J. Morris Chang
June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems LCTES'05**, Volume 40 Issue 7
Publisher: ACM Press

Full text available: pdf(285.27 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a detailed design and implementation of a power-efficient garbage collector for Java embedded systems. The proposed scheme is a hybrid between the standard mark-sweep-compact collector available in Sun's KVM and a limited-field reference counter. There are three benefits resulting from the proposed scheme. (a) the proposed scheme reclaims memory more efficiently and this results in less mark-sweep garbage collection invocations, (b) reduction in garbage collection invocations ...

Keywords: embedded systems, garbage collection, java mobile computing, virtual machines

6 PADS: a domain-specific language for processing ad hoc data

Kathleen Fisher, Robert Gruber
June 2005 **ACM SIGPLAN Notices , Proceedings of the 2005 ACM SIGPLAN conference on Programming language design and implementation PLDI '05**, Volume 40 Issue 6
Publisher: ACM Press

Full text available: pdf(106.89 KB)   Additional Information: full citation, abstract, references, citings, index terms

PADS is a declarative data description language that allows data analysts to describe both the physical layout of ad hoc data sources and semantic properties of that data. From such descriptions, the PADS compiler generates libraries and tools for manipulating the data, including parsing routines, statistical profiling tools, translation programs to produce well-behaved formats such as Xml or those required for loading relational databases, and tools for running XQueries over raw PADS data sourc ...

Keywords: data description language, domain-specific languages

7 <u>Predicting whole-program locality through reuse distance analysis</u>

Chen Ding, Yutao Zhong

May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation PLDI '03**, Volume 38 Issue 5

Publisher: ACM Press

Full text available: pdf(297.60 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Profiling can accurately analyze program behavior for select data inputs. We show that profiling can also predict program locality for inputs other than profiled ones. Here locality is defined by the distance of data reuse. Studying whole-program data reuse may reveal global patterns not apparent in short-distance reuses or local control flow. However, the analysis must meet two requirements to be useful. The first is efficiency. It needs to analyze all accesses to all data elements in full-size ...

Keywords: data locality, pattern recognition, prediction, profiling, program locality, reuse distance, sampling, stack distance, training

8 <u>Casual management of large computer systems with APL programs</u>

Charles A. Schulz

December 1987 **ACM SIGAPL APL Quote Quad , Proceedings of the international conference on APL APL '88**, Volume 18 Issue 2

Publisher: ACM Press

Full text available: pdf(870.23 KB)   Additional Information: <u>full citation</u>, <u>index terms</u>

9 <u>Stride directed prefetching in scalar processors</u>

John W. C. Fu, Janak H. Patel, Bob L. Janssens

December 1992 **ACM SIGMICRO Newsletter , Proceedings of the 25th annual international symposium on Microarchitecture MICRO 25**, Volume 23 Issue 1-2

Publisher: IEEE Computer Society Press, ACM Press

Full text available: pdf(1.36 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

10 <u>Using representation clauses as an operating system interface</u>

Karl A. Nyberg

July 1987 **ACM SIGAda Ada Letters**, Volume VII Issue 4

Publisher: ACM Press

Full text available: pdf(238.70 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

A set of Ada® packages and programs for performing system accounting under the Ultrix™ operating system on the VAX™ using VADS™ are described. These programs provide for the billing of timesharing customers based on amount of connect time and quantity of CPU usage. Interactions at the operating system level are accomplished through the use of representation specifications. A description of the changes required when the operating system data structures were m ...

11 <u>Miscellaneous: Traffic engineering of management flows by link augmentations on confluent trees</u>

Randeep Bhatia, Nicole Immorlica, Tracy Kimbrel, Vahab S. Mirrokni, Seffi Naor, Baruch

Schieber
July 2005 **Proceedings of the 17th annual ACM symposium on Parallelism in algorithms and architectures SPAA'05**
Publisher: ACM Press
Full text available: pdf(207.41 KB)   Additional Information: full citation, abstract, references, index terms

Service providers rely on the management systems housed in their Network Operations Centers (NOCs) to remotely operate, monitor and provision their data networks. Lately there has been a tremendous increase in management traffic due to the growing complexity and size of the data networks and the services provisioned on them. Traffic engineering for management flows is essential for the smooth functioning of these networks to avoid congestion, which can result in loss of critical data such as bil ...

Keywords: approximation algorithms, network management, traffic engineering

12 Evaluating e-commerce functionality with a focus on customer service

Nancy J. Lightner
October 2004 **Communications of the ACM**, Volume 47 Issue 10
Publisher: ACM Press
Full text available: pdf(108.13 KB)
            html(16.28 KB)   Additional Information: full citation, abstract, references, index terms

B2C Web sites allow companies to present their unique advantages, as long as they provide the necessary customer service. This checklist will help developers create more effective B2C sites.

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